

PLATE 1 BOOK EXHIBITION

807/342

Vsesoyuznyye konferentsiya, professor i pedagogicheskoye pedagogicheskoye institut.

Primeneniye ultrazvukov v tekhnicheskoy razrabotke i izobrazhenii. 1979. 9 (Application of Ultrasonics in the Study of Substances, No. 9) Moscow. Izd. 807, 1979. 265 p. Karta all inserted. 1,000 copies printed.

Ed.: V. P. Roudnev, Professor, and B. B. Rudzinskiy, Professor.

REMARKS: This collection of articles is intended for scientists specializing in ultrasonics, and for those interested in the application of ultrasonics to the study of the properties of materials, and to the quality control of machined parts and structural elements.

CONTENTS: The collection constitutes the proceedings of the All-Union Conference of Professors and Teachers of Pedagogical Institutions. The articles report on recent theoretical and experimental investigations in the field of ultrasonics and discuss the application of ultrasonics to the study of

Card 1/7

Application of Ultrasonics (Cont.)

807/342

Kuznetsov, A. V. and L. B. Malozemov (Sovetskoye polozhenie. 19-4 (Soviet Pedagogical Institutions)). Dependence of Speed of Ultrasonic and Certain Physicochemical Properties of Liquid Binary Systems on Their Composition and Temperature

71

Opyt primeneniya, S. P. (Kurs Pedagogicheskoye). Speed of Ultrasonic with Near-Solidification Temperature in Certain Organic Substances

83

Berkman, B. A. (Moskovskiy Pedagogicheskoye Institut). Measurement of Absorption of Ultrasonic Waves in Organic Liquids in the Liquid-Crystal Transition Region

91

Rudzinskiy, B. V. and B. B. Rudzinskiy (Moskovskiy Pedagogicheskoye Institut). Investigation of the Behavior of Convective Bubbles

107

Rudzinskiy, B. V. (Moskovskiy Pedagogicheskoye Institut). Problem of the Mechanism of Bubble Formation in Nitrogen Acetate

117

Application of Ultrasonics (Cont.)

807/342

Kuznetsov, A. P. (Mosk. Ped. Inst. Lening. (Moskovskiy Pedagogicheskoye Institut Lening.)). Rich Figures in Turbidity Measurements

125

Kuznetsov, A. P. and V. Ya. Kuznetsov (Moskovskiy Pedagogicheskoye Institut Lening. and Inst. Fiziki, SSSR (Institute of Crystallography of the Academy of Sciences, USSR)). Effect of the Vibration of Vessel Walls on Crystallization in Thin Layers

127

Kuznetsov, A. P., A. A. Dykova, and V. S. Chirakova (Krasnoyarsk. Ped. Inst. (Krasnoyarsk Pedagogical Institute), Krasnoyarsk. Inst. Fiziki AN SSSR (Krasnoyarsk Institute of Physics of the Academy of Sciences, USSR)). Effect of Ultrasonic on the Magnetic Properties of Ferromagnetics

131

Rudzinskiy, B. V., A. V. Rudzinskiy, and A. P. Rudzinskiy (Moskovskiy Pedagogicheskoye Institut Lening.)). Effect of Ultrasonics on the Transformation of Phosphors

139

Card 2/7

PLANE I BOOK EXPLANATION 604/5007

Vsesoyuznaya konfrentsiya professorov i pedagogov fiziko-tehnicheskogo instituta, Prikladnyy ul'trazvuk i issledovaniya veshchestva (Utilization of Ultrasonics for the Investigation of Matter) Moscow, Izd. MFTI, 1960. 267 p. 1,000 copies printed. (Series: Its Trudy, vyp. 11)

Ed. (title page): V.F. Rozdov, Professor and B.B. Kadyshev, Professor.

PURPOSE: This collection of articles is intended for physicists specializing in the physics of ultrasound.

CONTENT: The collection of articles constitutes the transactions of the VII Conference on the Applications of Ultrasonics to the Study of Materials, which was held at the Moscow Chist Pedagogical Institute from 2-12. November. Individual articles of the collection discuss various problems in the wave mechanics of ultrasound, the absorption and the propagation of ultrasonic waves in various media, the operating principles and design of generators and receivers of ultrasonic waves, the speed of sound and methods for its determination. Other articles deal with the applications of ultrasonics to investigations of the properties of materials. No probabilities are mentioned. Reference category

- 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125 126 127 128 129 130 131 132 133 134 135 136 137 138 139 140 141 142 143 144 145 146 147 148 149 150 151 152 153 154 155 156 157 158 159 160 161 162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200 201 202 203 204 205 206 207 208 209 210 211 212 213 214 215 216 217 218 219 220 221 222 223 224 225 226 227 228 229 230 231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000 1001 1002 1003 1004 1005 1006 1007 1008 1009 1010 1011 1012 1013 1014 1015 1016 1017 1018 1019 1020 1021 1022 1023 1024 1025 1026 1027 1028 1029 1030 1031 1032 1033 1034 1035 1036 1037 1038 1039 1040 1041 1042 1043 1044 1045 1046 1047 1048 1049 1050 1051 1052 1053 1054 1055 1056 1057 1058 1059 1060 1061 1062 1063 1064 1065 1066 1067 1068 1069 1070 1071 1072 1073 1074 1075 1076 1077 1078 1079 1080 1081 1082 1083 1084 1085 1086 1087 1088 1089 1090 1091 1092 1093 1094 1095 1096 1097 1098 1099 1100 1101 1102 1103 1104 1105 1106 1107 1108 1109 1110 1111 1112 1113 1114 1115 1116 1117 1118 1119 1120 1121 1122 1123 1124 1125 1126 1127 1128 1129 1130 1131 1132 1133 1134 1135 1136 1137 1138 1139 1140 1141 1142 1143 1144 1145 1146 1147 1148 1149 1150 1151 1152 1153 1154 1155 1156 1157 1158 1159 1160 1161 1162 1163 1164 1165 1166 1167 1168 1169 1170 1171 1172 1173 1174 1175 1176 1177 1178 1179 1180 1181 1182 1183 1184 1185 1186 1187 1188 1189 1190 1191 1192 1193 1194 1195 1196 1197 1198 1199 1200 1201 1202 1203 1204 1205 1206 1207 1208 1209 1210 1211 1212 1213 1214 1215 1216 1217 1218 1219 1220 1221 1222 1223 1224 1225 1226 1227 1228 1229 1230 1231 1232 1233 1234 1235 1236 1237 1238 1239 1240 1241 1242 1243 1244 1245 1246 1247 1248 1249 1250 1251 1252 1253 1254 1255 1256 1257 1258 1259 1260 1261 1262 1263 1264 1265 1266 1267 1268 1269 1270 1271 1272 1273 1274 1275 1276 1277 1278 1279 1280 1281 1282 1283 1284 1285 1286 1287 1288 1289 1290 1291 1292 1293 1294 1295 1296 1297 1298 1299 1300 1301 1302 1303 1304 1305 1306 1307 1308 1309 1310 1311 1312 1313 1314 1315 1316 1317 1318 1319 1320 1321 1322 1323 1324 1325 1326 1327 1328 1329 1330 1331 1332 1333 1334 1335 1336 1337 1338 1339 1340 1341 1342 1343 1344 1345 1346 1347 1348 1349 1350 1351 1352 1353 1354 1355 1356 1357 1358 1359 1360 1361 1362 1363 1364 1365 1366 1367 1368 1369 1370 1371 1372 1373 1374 1375 1376 1377 1378 1379 1380 1381 1382 1383 1384 1385 1386 1387 1388 1389 1390 1391 1392 1393 1394 1395 1396 1397 1398 1399 1400 1401 1402 1403 1404 1405 1406 1407 1408 1409 1410 1411 1412 1413 1414 1415 1416 1417 1418 1419 1420 1421 1422 1423 1424 1425 1426 1427 1428 1429 1430 1431 1432 1433 1434 1435 1436 1437 1438 1439 1440 1441 1442 1443 1444 1445 1446 1447 1448 1449 1450 1451 1452 1453 1454 1455 1456 1457 1458 1459 1460 1461 1462 1463 1464 1465 1466 1467 1468 1469 1470 1471 1472 1473 1474 1475 1476 1477 1478 1479 1480 1481 1482 1483 1484 1485 1486 1487 1488 1489 1490 1491 1492 1493 1494 1495 1496 1497 1498 1499 1500 1501 1502 1503 1504 1505 1506 1507 1508 1509 1510 1511 1512 1513 1514 1515 1516 1517 1518 1519 1520 1521 1522 1523 1524 1525 1526 1527 1528 1529 1530 1531 1532 1533 1534 1535 1536 1537 1538 1539 1540 1541 1542 1543 1544 1545 1546 1547 1548 1549 1550 1551 1552 1553 1554 1555 1556 1557 1558 1559 1560 1561 1562 1563 1564 1565 1566 1567 1568 1569 1570 1571 1572 1573 1574 1575 1576 1577 1578 1579 1580 1581 1582 1583 1584 1585 1586 1587 1588 1589 1590 1591 1592 1593 1594 1595 1596 1597 1598 1599 1600 1601 1602 1603 1604 1605 1606 1607 1608 1609 1610 1611 1612 1613 1614 1615 1616 1617 1618 1619 1620 1621 1622 1623 1624 1625 1626 1627 1628 1629 1630 1631 1632 1633 1634 1635 1636 1637 1638 1639 1640 1641 1642 1643 1644 1645 1646 1647 1648 1649 1650 1651 1652 1653 1654 1655 1656 1657 1658 1659 1660 1661 1662 1663 1664 1665 1666 1667 1668 1669 1670 1671 1672 1673 1674 1675 1676 1677 1678 1679 1680 1681 1682 1683 1684 1685 1686 1687 1688 1689 1690 1691 1692 1693 1694 1695 1696 1697 1698 1699 1700 1701 1702 1703 1704 1705 1706 1707 1708 1709 1710 1711 1712 1713 1714 1715 1716 1717 1718 1719 1720 1721 1722 1723 1724 1725 1726 1727 1728 1729 1730 1731 1732 1733 1734 1735 1736 1737 1738 1739 1740 1741 1742 1743 1744 1745 1746 1747 1748 1749 1750 1751 1752 1753 1754 1755 1756 1757 1758 1759 1760 1761 1762 1763 1764 1765 1766 1767 1768 1769 1770 1771 1772 1773 1774 1775 1776 1777 1778 1779 1780 1781 1782 1783 1784 1785 1786 1787 1788 1789 1790 1791 1792 1793 1794 1795 1796 1797 1798 1799 1800 1801 1802 1803 1804 1805 1806 1807 1808 1809 1810 1811 1812 1813 1814 1815 1816 1817 1818 1819 1820 1821 1822 1823 1824 1825 1826 1827 1828 1829 1830 1831 1832 1833 1834 1835 1836 1837 1838 1839 1840 1841 1842 1843 1844 1845 1846 1847 1848 1849 1850 1851 1852 1853 1854 1855 1856 1857 1858 1859 1860 1861 1862 1863 1864 1865 1866 1867 1868 1869 1870 1871 1872 1873 1874 1875 1876 1877 1878 1879 1880 1881 1882 1883 1884 1885 1886 1887 1888 1889 1890 1891 1892 1893 1894 1895 1896 1897 1898 1899 1900 1901 1902 1903 1904 1905 1906 1907 1908 1909 1910 1911 1912 1913 1914 1915 1916 1917 1918 1919 1920 1921 1922 1923 1924 1925 1926 1927 1928 1929 1930 1931 1932 1933 1934 1935 1936 1937 1938 1939 1940 1941 1942 1943 1944 1945 1946 1947 1948 1949 1950 1951 1952 1953 1954 1955 1956 1957 1958 1959 1960 1961 1962 1963 1964 1965 1966 1967 1968 1969 1970 1971 1972 1973 1974 1975 1976 1977 1978 1979 1980 1981 1982 1983 1984 1985 1986 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 2001 2002 2003 2004 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049 2050 2051 2052 2053 2054 2055 2056 2057 2058 2059 2060 2061 2062 2063 2064 2065 2066 2067 2068 2069 2070 2071 2072 2073 2074 2075 2076 2077 2078 2079 2080 2081 2082 2083 2084 2085 2086 2087 2088 2089 2090 2091 2092 2093 2094 2095 2096 2097 2098 2099 2100 2101 2102 2103 2104 2105 2106 2107 2108 2109 2110 2111 2112 2113 2114 2115 2116 2117 2118 2119 2120 2121 2122 2123 2124 2125 2126 2127 2128 2129 2130 2131 2132 2133 2134 2135 2136 2137 2138 2139 2140 2141 2142 2143 2144 2145 2146 2147 2148 2149 2150 2151 2152 2153 2154 2155 2156 2157 2158 2159 2160 2161 2162 2163 2164 2165 2166 2167 2168 2169 2170 2171 2172 2173 2174 2175 2176 2177 2178 2179 2180 2181 2182 2183 2184 2185 2186 2187 2188 2189 2190 2191 2192 2193 2194 2195 2196 2197 2198 2199 2200 2201 2202 2203 2204 2205 2206 2207 2208 2209 2210 2211 2212 2213 2214 2215 2216 2217 2218 2219 2220 2221 2222 2223 2224 2225 2226 2227 2228 2229 2230 2231 2232 2233 2234 2235 2236 2237 2238 2239 2240 2241 2242 2243 2244 2245 2246 2247 2248 2249 2250 2251 2252 2253 2254 2255 2256 2257 2258 2259 2260 2261 2262 2263 2264 2265 2266 2267 2268 2269 2270 2271 2272 2273 2274 2275 2276 2277 2278 2279 2280 2281 2282 2283 2284 2285 2286 2287 2288 2289 2290 2291 2292 2293 2294 2295 2296 2297 2298 2299 2300 2301 2302 2303 2304 2305 2306 2307 2308 2309 2310 2311 2312 2313 2314 2315 2316 2317 2318 2319 2320 2321 2322 2323 2324 2325 2326 2327 2328 2329 2330 2331 2332 2333 2334 2335 2336 2337 2338 2339 2340 2341 2342 2343 2344 2345 2346 2347 2348 2349 2350 2351 2352 2353 2354 2355 2356 2357 2358 2359 2360 2361 2362 2363 2364 2365 2366 2367 2368 2369 2370 2371 2372 2373 2374 2375 2376 2377 2378 2379 2380 2381 2382 2383 2384 2385 2386 2387 2388 2389 2390 2391 2392 2393 2394 2395 2396 2397 2398 2399 2400 2401 2402 2403 2404 2405 2406 2407 2408 2409 2410 2411 2412 2413 2414 2415 2416 2417 2418 2419 2420 2421 2422 2423 2424 2425 2426 2427 2428 2429 2430 2431 2432 2433 2434 2435 2436 2437 2438 2439 2440 2441 2442 2443 2444 2445 2446 2447 2448 2449 2450 2451 2452 2453 2454 2455 2456 2457 2458 2459 2460 2461 2462 2463 2464 2465 2466 2467 2468 2469 2470 2471 2472 2473 2474 2475 2476 2477 2478 2479 2480 2481 2482 2483 2484 2485 2486 2487 2488 2489 2490 2491 2492 2493 2494 2495 2496 2497 2498 2499 2500 2501 2502 2503 2504 2505 2506 2507 2508 2509 2510 2511 2512 2513 2514 2515 2516 2517 2518 2519 2520 2521 2522 2523 2524 2525 2526 2527 2528 2529 2530 2531 2532 2533 2534 2535 2536 2537 2538 2539 2540 2541 2542 2543 2544 2545 2546 2547 2548 2549 2550 2551 2552 2553 2554 2555 2556 2557 2558 2559 2560 2561 2562 2563 2564 2565 2566 2567 2568 2569 2570 2571 2572 2573 2574 2575 2576 2577 2578 2579 2580 2581 2582 2583 2584 2585 2586 2587 2588 2589 25

S/194/62/000/004/072/105
D295/D308

AUTHOR: Kustova, A. V.

TITLE: Dynamic methods for the investigation of polymers

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika,
no. 4, 1962, abstract 4-5-42v (V Sb. Primeneniye ul'-
traazvust. k issled. veshchestva. no. 13, X., 1961,
293-306)

TEXT: Methods of investigation of the dynamic properties of poly-
mers are reviewed. The great importance of acoustical methods is
emphasized. The connection between quantities measured in experi-
ment and the characteristics of polymers is shown. The basic dyna-
mic characteristics of polymers are found from general considera-
tions. Kelvin-Voigt and Maxwell's models are used to show their
connection with the structure of polymers. An analysis is given of
the basic methods of investigation of the dynamical properties of
polymers and their limits of applicability. It is shown that, in
order to obtain a complete picture of the dynamic properties of

Card 1/2

Dynamic methods for ...

S/194/62/000/004/072/105
D295/D308

polymers, the use of several methods is needed. The basic dynamic characteristics are considered to be: the absolute value and the imaginary and real parts of the dynamic modulus of elasticity, the mechanical loss angle and the energy-dissipation coefficient. The use of polymer models enables the characteristics to be related to elasticity and viscosity. 40 references. [Abstracter's note: Complete translation.] ✓

Card 2/2

9/058/62/000/001/075/120
A160/A101

15,9300

AUTHOR: Kustova, A. V.

TITLE: The effect of the structure of the space grid on the hysteresis losses in rubber

PERIODICAL: Referativnyy zhurnal, Fizika, no. 1, 1963, 30, abstract 1E181
(In collection: "Primeneniye ultraakust. k issled. veshchestva",
no. 16, M., 1962, 3 - 11)

TEXT: An investigation was conducted on the effect of the space-grid structure of non-filled rubber from natural caoutchouc on the magnitude $\text{tg } \delta$ in the region of low frequencies (25 - 100 cps) at small oscillation amplitudes. The magnitude of $\text{tg } \delta$ is determined by the method of free oscillations. The sample, having the form of a girder with a $5 \times 6\text{-mm}^2$ section, was vertically fastened between two plane-parallel plates and was unbalanced with a help of a motor rotating at a speed of 1 rev/sec. The oscillations of the free end of the sample were recorded by an oscillograph. The space-grid structure of the rubber was changed by changing the temperature (143 - 160°C) and the vulcaniza-

Card 1/2

The effect of the structure of the...

S/058/63/000/001/015/120
A160/A101

tion time t_{vulc} (2 - 120 min). To determine the space grid of the rubber, a conditional module of elasticity and the magnitude of M_c were used, calculated by the swelling method. The curves of the relation between M_c and t_{vulc} pass through a minimum in all ranges of the temperatures investigated. It is shown that the highest density of the vulcanization grid corresponds to the minimum losses in the rubber. The observed results are explained within the framework of Patrikeyev's frame theory.

A. Sidorovich

[Abstracter's note: Complete translation]

Card 2/2

S/081/63/000/003/035/036
B144/B106

AUTHOR: Kustova, A. V.

TITLE: Effect of the structure of the space network on hysteresis losses in rubber

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 3, 1963, 639, abstract 3T376 (Primeneniye ul'traakust. k issled. veshchestva, no. 16, M., 1962, 3-11)

TEXT: The effect of the structure of the space network of uncompounded rubber from natural rubber was studied on the value of the tangens of the angle, $\tan \delta$, of mechanic losses in the frequency range 25 - 100 cps at small vibration amplitudes. $\tan \delta$ was determined by the method of free vibrations in the rubber sample according to the value of the logarithmic damping decrement. The structure of the space network was changed by varying the temperature (143 - 163°C) and the time (2 - 120 min) of vulcanization. The smallest $\tan \delta$ and minimum hysteresis losses correspond to the most compact vulcanization network. When the compactness of the vulcanization network increases, the number of rubber molecule parts under

Card 1/2

Effect of the structure of the space ...

S/081/63/000/003/035/036
B144/B186

elastic stress in deformation may increase. In the part under elastic stress hysteresis losses are absent. An increase in the number of these parts in the optimum vulcanization region leads to the least energy loss in the rubber when it works under dynamic conditions in the low-frequencies region. [Abstracter's note: Complete translation.]

Card 2/2

KUSTOVA, A.V.

Effect of the structure of the space lattice on the
hysteresis losses in rubber. Prim.ul'treakust.k issl.veshch.
no.16:3-11 '62. (MIRA 16:4)
(Rubber, Synthetic) (Hysteresis)

L 33337-66 ENT(1)/ENT(m)/EXP(j) IJP(c) GD/RM
ACC NR: AT6013392 (A) SOURCE CODE: UR/0001/62/000/000/0003/0011

AUTHOR: Kustova, A.V.

ORG: None

TITLE: Influence of space net structure on hysteresis losses in rubber

SOURCE: Moscow. Oblastnoy pedagogicheskiy institut. Primemeniye ul'traakustiki k issledovaniyu veshchestva, no. 16, 1962, 3-11

TOPIC TAGS: rubber, elastic hysteresis, elastic modulus, molecular weight, vulcanization

ABSTRACT: Influence of space net structure of rubber upon its elastic modulus and internal damping was investigated. For this purpose, the relations between average molecular weight of a molecular cell and internal damping was studied. The hysteresis loss per cycle, dW , is related to the angle, δ , of mechanical losses: $dW/W = 2 \operatorname{tg} \delta$ (1) where W is the total work of the deformation cycle. The apparatus is shown in Fig. 1. Oscillations of the sample's free end were actuated by an arm of the shaft and evaluated. Natural unfilled rubber was used (smoked sheets - 100.0, sulphur - 3.0; ZnO - 5.0 captex - .7; stearic acid - 1.0). Fig. 2 shows vulcanization time and frequency influence on $\operatorname{tg} \delta$. Fig. 3 - $\operatorname{tg} \delta$ dependence on molecular weight of a molecular cell at 50 cycles/second. Author thanks prof. B.B. Kudryavtsev and prof. G.A. Patrikeyev for aid and interest in this work.

Card 1/2

L 33337-66

ACC NR: AT6013392

Fig. 1. Apparatus. 1 - sample; 2 - motor
3 - electromagnetic sensor; 4 - amplifier
5 - power amplifier; 6 - oscillograph; 7 - oscilloscope

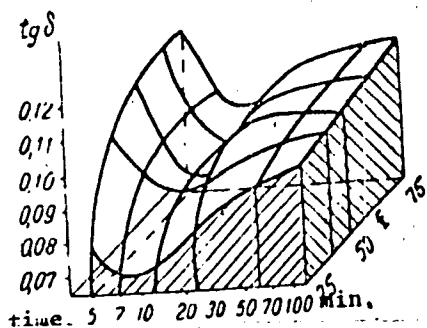
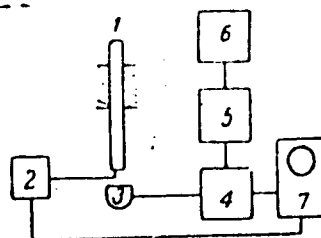


Fig. 2. $\text{tg } \delta$ dependence upon frequency and vulcanization time

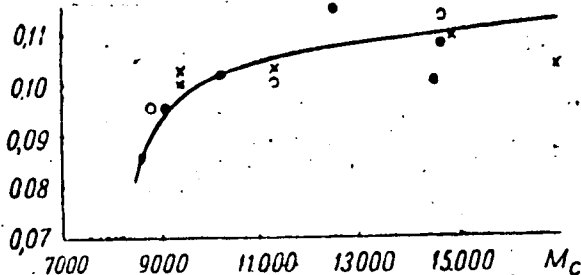


Fig. 3. Relation between $\text{tg } \delta$ and average molecular weight of a rubber molecular cell.

Orig. art. has 9 figures.

SUB CODE: 11/
Card 2/2 ULR

SUBM DATE: 20Mar62/

ORIG REP: 007/

OTH REP: 001

[illegible]

GAGARINSKIY, Yu.V.; RUCHKIN, Yo.D.; LUK'YANOVA, L.A.; KUSTOVA, G.N.;
BATSANOV, S.S.

Crystal chemical study of thorium tetrafluoride hydrates. Izv.
SO AN SSSR no.11 Ser.khim.nauk no.3:8-16 '63. (MIRA 17:3)

L 42884.66 ENT(m)/ENP(1)/ENP(t)/ETI LJP(c) JD.WW/JG/RM
ACC NR: AP6020386 (A) SOURCE CODE: UR/0192/66/007/001/0122/0123

AUTHOR: Batsanov, S. S.; Kustova, G. N. 60
B

ORG: Institute of Inorganic Chemistry, SO AN SSSR, Novosibirsk (Institut neorganicheskoy khimii SO AN SSSR)

TITLE: Optical properties of rare earth oxides. Part 4: Polythermal study of neodymium acetate and hydroxide

SOURCE: Zhurnal strukturnoy khimii, v. 7, no. 1, 1966, 122-123

TOPIC TAGS: neodymium compound, IR spectrum, thermal decomposition

ABSTRACT: The formation of neodymium oxide from the acetate and hydroxide was studied by means of IR spectra. Neodymium acetate $\text{Nd}(\text{CH}_3\text{CO}_2)_3 \cdot 6\text{H}_2\text{O}$ was heated to 100, 200..., 1200°, each time to a constant weight, and its spectra were recorded. An appreciable decomposition begins at 330°, and an absorption band due to the Nd-O bond appears in the absorption spectrum at 400 cm^{-1} . The band has two humps, i. e., is characteristic of the C form of Nd_2O_3 . The acetate ions are completely decomposed at 600°. The C-A transition occurs at 700°. The intensity of the 400 cm^{-1} band increases with heating and holding of the samples at 700, 800, and 900° as the content of Nd_2O_3 increases. Heating at 1000 and 1100° does not change this intensity, but after prolonged holding at 1200°, the intensity drops sharply. A similar result was obtained in a spectroscopic study of the thermal decomposition of neodymium hydroxide. At 900°, the C form

Card 1/2

UDC: 541.65

L. 52584-66

ACC NR: AP6020386

of Nd_2O_3 changed into the A form. Orig. art. has: 2 figures.

SUB CODE: 07/ SUBM DATE: 20Feb65/ ORIG REF: 003/ OTH REF: 001

Card

2/2

ACCESSION NF: AP4012438

S/0078/64/009/002/0330/0334

AUTHORS: Batsanova, L. R.; Kustova, G. N.

TITLE: Oxyfluoride of rare earth elements

SOURCE: Zhurnal neorg. khim., v. 9, no. 2, 1964, 330-334

TOPIC TAGS: lanthanum oxyfluoride, praseodymium oxyfluoride, neodymium oxyfluoride, samarium oxyfluoride, gadolinium oxyfluoride, dysprosium oxyfluoride, yttrium oxyfluoride, lanthanum fluoride hydrolysis, density, refractive index, x ray data, IR spectrum

ABSTRACT: The oxyfluorides of La, Pr, Nd, Sm, Gs, Dy, and Y were prepared by two methods: (1) reacting equimolar amounts of the Ln_2O_3 and LnF_3 at $1000-1100^\circ$: $\text{La}_2\text{O}_3 + \text{LaF}_3 \rightarrow 3\text{LaOF}$; (2) partial hydrolysis of the LnF_3 at $800-900^\circ$: $\text{LaF}_3 + \text{H}_2\text{O} \rightarrow \text{LaOH} + 2\text{HF}$. Densities and refractive indices were determined; x-ray data was obtained. IR spectra of the rare earth oxyfluorides show strong absorption in the $400-550 \text{ cm}^{-1}$ region. Orig. art. has: 3 Figures and 3 Tables.

1/2

Card

ACCESSION NR: AP4012438

ASSOCIATION: Institut neorganicheskoy khimii Sibirskogo otdeleniya
AN SSSR (Institute of inorganic chemistry, Siberian
Branch AN SSSR)

SUBMITTED: 25Jan63

DATE ACQ: 26Feb64

ENCL: 00

SUB CODE: CH

NR REF SOV: 003

OTHER: 008

2/2

Card

L 35985-64 ENG(j)/EIT(m)/EPP(o)/EIR/ENP(t)/ENP(b) Pr-4/Ps-4

IJP(c) D/JG

ACCESSION NR: AP5007755

S/0192/65/006/001/0058/0065

AUTHOR: Batsanov, S. S.; Kuntova, G. N.; Ruchkin, Ye. D.; Grigor'yeva, V. S.TITLE: Optical properties of rare earth metal oxides. 2. A polythermic study of neodymium oxideSOURCE: Zhurnal strukturnoy khimii, v. 6, no. 1, 1965, 58-65

TOPIC TAGS: rare earth oxide, oxide optical property, neodymium oxide, polymorphic transformation, neodymium nitrate, neodymium oxalate, neodymium sulfate, neodymium coordination number, neodymium oxide structure

ABSTRACT: The authors report the results of X-ray, refractometric and spectroscopic studies of Nd_2O_3 obtained by roasting neodymium nitrate, oxalate and sulfate at 600-1300C in air. The nitrate proved least and the sulfate most resistant to heat. It was shown that a sufficiently pure oxide is only obtained at 1100C. Upon dissociation of the Nd sulfate, the oxysulfate was obtained ($\text{Nd}_2\text{O}_2\text{SO}_4$) between 800 and 1000C. This was also studied. Polymorphic C \rightarrow A transformation was detected for the oxalate at 700-800C, for the nitrate at 800-900C. No such transformation was seen for the sulfate where the A-form

Card 1/3

L 36985-65
ACCESSION NR: AP5007755

appeared at 1100C. Under the experimental conditions, no B-form was detected. Refractometric studies showed irregular changes in density with increasing temperature; however, a decrease in density was noted for all specimens at 1200C. The maximal density between 1000 and 1100C may be related to the existence of the B-modification. The structures of the A and C form were shown to differ by the coordination numbers of the metal atom, 7 for A and 6 for C-Nd₂O₃. In spectroscopic determinations on the nitrate, the Nd-O band started at 400, corresponding to the formation of the oxynitrate, and persisted to 900C. Similar results were obtained for the oxalate. For the sulfate, the Nd-O band appeared only around 900C, together with that of SO₄²⁻ corresponding to the existence of the oxysulfate rather than a mixture of the sulfate and oxide. The oxysulfate disappeared completely at 1100C. The 2 maxima obtained for the Nd-O bond in the sulfate suggest that isolation of SO₃ at this temperature might also yield the C-form for the sulfate. In the process of thermal dissociation of the salts, the absorption intensity $\nu(\text{Nd-O})$ was observed to increase at the beginning, due to increase in Nd₂O₃ concentration in the specimen, and then drop due to a decrease in the number of defects in the structure. Orig. art. has: 3 figures and 5 tables.

Card 2/3

L 36935.55
ACCESSION NR: AP5007755

ASSOCIATION: Institut neorganicheskoy khimii SO AN SSSR, Novosibirsk (Institute
of Inorganic Chemistry, SO AN. SSSR)

SUBMITTED: 03Jan64

ENCL: 00

SUB CODE: IC, OP

NO REF SOV: 005

OTHER: 008

Card

3/3 *ps*

KODENET, I.M., prof.; KUSTOVA, I.I.

Use floodland soils intensively. Zemledelie 27 no.9:54-55 S '65.

(MIRA 18:10)

1. Gor'kovskiy sel'skokhozyaystvennyy institut.

BOUCHALOVA, M., mudr.; SRACKOVA, D , mudr.; KUSTOVA, L.; GERYLOVOVA, A., prom.
mat.

Contribution to the study of the state of health in children. II.
The state of health in children according to medical examinations.
Česk. zdrav. 10 no.7/8:392-398 '62.

1. Ústav zdravotnictví lékařské fakulty University J.E.Purkyně v Brně
II. dětská klinika lékařské fakulty University J.E.Purkyně v Brně.
(CHILD WELFARE)

ROOSTERS, A. I. ROOSTERS, L.

Poultry - Feeding and Feeding Stuffs

Getting cockerels ready for fattening.
Misc. Ind., 23, No. 4, 1952.

Monthly List of Russian Accessions, Library of Congress, number 1952. Unclassified.

CZECHOSLOVAKIA

HRVAK, A.; POLHRADECKY, K.; KUSTOVA, L.

1. X-ray and Nuclear Medicine Section (Katedra radiologie a
muhl. lekarstvi), LF UKP, Brno; 2. First Pediatric Clinic
(I. detska klinika), LF UKP, Brno; 3. Second Pediatric Clinic
(II. detska klinika), LF UKP, Brno

Brno, Vnitřní lékařství, No 5, May 1966, pages 481-485

"Diagnosis of Vesico-Ureteric reflux by means of isotope renography."

SHCHENNIKOV, S., doktor veterinarnykh nauk; PETROVSKAYA, Ye., kandidat veterinarnykh nauk; KUSTOVA, L., kandidat tekhnicheskikh nauk; KRASNITSKAYA, K.

Methods for determining the freshness of poultry meat and fat. Mias.
ind. SSSR 26 no.5:51-53 '55. (MLRA 9:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut ptitsepromyshlennosti.
(Poultry) (Oils and fats, Edible)

STROGANOV, P., elektromonter; KUSTOVA, L.; D'YACHKOV, N., slesar'

Congress will be held soon. Izobr. i rats. no. 5 (201): 19 '63.
(MIRA 16:7)

1. Moskovskiy zavod "Serp i molot" (for Stroganov). 2. Zavod
"Krasnyy Proletariy" (for D'yachkov).
(Technological innovations)

KUSTOVA, L. (g. Vladimir)

I simply like it. Izobr. 1 rats. no.4:5 '63. (MIRA 1617)

(Vladimir—Acetic anhydride)

SHIKHOBALOVA, N. P., KUSTOVA, L. I., KOSILOV, A. M.

Worms, Intestinal and Parasitic

Effect of ascarids on vitamin A content in chick liver. Trudy Gel'm. lab.
no. 5, 1951.

9. Monthly List of Russian Accessions, Library of Congress, September 1953¹/₂, Uncl.

KUZNETSOV, I.A.; KUSTOVA, L.V.; GORSHKOV, V.I.; PANCHENKOV, G.M.

Equilibrium of cation exchange of alkali metals on cation
exchange resins KU-1 and KU-2. Vest.Mosk.un.Ser.2:Khim. 18
no.2:10-13 Mr-Apr '63. (MIRA 16:5)

1. Kafedra fizicheskoy khimii Moskovskogo universiteta.
(Alkali metals) (Ion exchange resins)
(Chromatographic analysis)

GORSHEV, V.I.; KUZNETSOV, I.A.; PANDHENKOV, G.M.; KUSTOVA, L.V.

Continuous countercurrent ion exchange method for separation of lithium and sodium. Zhur. neorg. khim. 8 no.12:2790-2794, D 163.

Feasibility of countercurrent ion exchange separation of rubidium and cesium. Ibid.:2795-2799 (MIRA 17:9)

1. Moskovskiy gosudarstvennyy universitet imeni Lomonosova, kafedra fizicheskoy khimii.

TSEKOVITSKAYA, I.A.; KUSTOVA, N.A.

Amperometric determination of V^{4+} and V^{3+} when they are present simultaneously. Vest. LGU 15 no.16:148 '60. (MIRA 13:8)
(Vanadium--Analysis)

TSERKOVNITSKAYA, I.A.; PRUDNIKOV, Ye.D.; KUSTOVA, N.A.

Effect of organic complexing agents on the oxidation-reduction
potential of the V^{4+}/V^{3+} system. Vest.LGU 16 no.10:133-134 '61.
(MIRA 14:5)
(Vanadium compounds) (Oxidation-reduction reaction)
(Complex ions)

KUSTOVA, S.D.; BELOV, V.N.

Preparation of methyl ether of tetrahydroabietic acid and
tetrahydroabietyl alcohol. Trudy VNIISNDV no.2:58-60 '54.

(MLRA 10:7)

(Methyl ether) (Phenatrenecarboxylic acid) (Abietyl alcohol)

KUSTOVA, S. D.

USSR/Chemistry

Card 1/1

Authors : Belov, V. N., and Kustova, S. D.

Title : Study of certain abietic acid conversions

Periodical : Zhur. Ob. Khim., 24, Ed. 6, 1087 - 1094, June 1954

Abstract : Heating of abietic acid with water under pressure at a temperature of 230 - 250°, yields 12 - 13% abietene. Decarboxylation of the acid sodium salt of abietic acid, in the presence of alkali, takes place at the same temperature, with a result of a 40% yield of abietene. The bromide forming during the reaction of abietene with N-bromosuccinimide is unstable at an above zero temperature. Complete dehydrogenation of the abietene is the result of such reaction. The derivation of tetrahydroabietene, as result of reaction between hydrochloride of tetrahydroabietylamine and nitrous acid, indicates that no cycle isomerization occurs during the substitution of the amino group by the hydroxyl. Eleven references.

Institution : All-Union Scientific-Research Institute of Synthetic and Natural Perfumes

Submitted : December 21, 1953

Distr

New synthesis of iron. V. N. Ildiz, V. A. Dav, S. D. Kuznetsov, K. Y. Lebedev, S. S. Poldubnitsky, K. A. Sviridova

with dry HCl with ice cooling gave 80% isomeric chlorobutene, *bp.* 35–40°. This material (2.50 g.) and 144 g. 1,2-dichloroethane were placed in a 500-ml. flask and 30 ml. 10% NaCl solution added. After 20 min. with 200 ml. sat. NaOH, the product was washed with 200 ml. sat. NaOH, dried, and distilled. *bp.* 60–65°. This (2.6 g.) and 16.3 g. dry pyridine in 80 ml. of 60–65° gave 71% polymerized material, which (30.7 g.), kept 3 hrs. at room temp. with 20.7 g. *p*-NaOCH₃ (CH₃ONa), 370 ml. EtOH, and 8.5 ml. *N*-NaOH, dried, with 750 ml. H₂O, kept 20 hrs. with ice cooling, and, with CaH₂ and the nitrosonium decompd. with 2*N* HCl gave 20.6% crude methylacetal, which after steam distn. had *bp.* 41°/1.4015, *dg.* crude methylacetal, *refractive index* 1.4015, *refractive index* 1.4015. After solvent by distn. to 110°, heated on a steam bath 3 hrs. with 58 g. isoprene chlorides, and repeatedly treated 3 hrs. with isoprene gave an eq. soln. of the Sommelet complex, which, treated with 100 g. formalin, acid, with NaCl, and steam-distd., yielded 10 g. methylacetal, *bp.* 53–57°, *refractive index* 1.4810. The 3-methylacetal (7.3 g.), 12 g. Me₂CO, and 14.6 g. 11% NaOH soln. stirred 72 hrs. at 18–25° and acid, with H₂O gave 4.3 g. crude methylacetal, *bp.* 124–60°, *refractive index* 1.4810. This (3.9 g.) in 70 ml. CaH₂ treated at 0° with BF₃ until sat., the product cooled to 0°, treated with 95 ml. 8% NaOH, and acid, with CaH₂, then repeatedly with sat. NaOH, yielded a range of fractions, *bp.* 94–7°, with *refractive index* 1.4603, and *dg.* 0.8343, values agreeing with those of *trans*-1,2-methylacetal, *bp.* 94–7°, *refractive index* 1.4603, prepared by copolymerization with BF₃. The pseudobutene prepd. above contains about 65% *trans* isomer, as shown by its *refractive index* 1.4603.

G. M. Knechtel

KORE, S.A.; KUSTOVA, S.D.; BELOV, V.H.

Intermediate products of the synthesis of odorous substances.

Report No.9: Converting primary chlorides to corresponding
aldehydes by the Kröhnke method. Trudy VNIISNDV no.4:39-41
'58. (MIRA 12:5)

(Aldehydes) (Perfumes, Synthetic)

NOVOTEL'NOVA, N.P.; KUSTOVA, S.D., kand.khim.nauk

Composition of the residual part of Chinese citronella
oil after the extraction of geraniol, citronellol, and
citronellal. Masl.-shir.prom. 25 no.10:28-29 '59.

(MIRA 13:2)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskikh i natural'nykh dushistykh veshchestv.
(Citronella oil)

SIBIRTSEVA, V.Ye.; VIREZUB, S.I.; KUSTOVA, S.D.

Odorous substances from sclareol. Report No.1: Ambrial and
ambroxide. Trudy VNIISNDV no.5:9-14 '61. (MIRA 14:10)
(Odorous substances) (Sclareol)

BAG, A.A.; BLIZNYAK, N.V.; BULANOVA, A.V.; KUSTOVA, S.D.; CHERKAYEV, V.G.

Odorous substances from sclareol. Report No.2: Possibility for converting the lactone 1,1,6,10-tetramethyl-6-oxy-5-methylene-carboxydecalin into 1,1,6,10-tetramethyl-6-oxy-5 (β -oxy)-ethyldecalin by catalytic hydrogenation. Trudy VNIISNDV no.5: 14-16 '61. (MIRA 14:10)

(Odorous substances)

(Naphthalene)

SIBIRTSEVA, V.Ye., inzh.; KUSTOVA, S.D., kand.khimicheskikh nauk;
KOGELMAN, G.M., inzh.; MAKANOVITSKAYA, I.S., inzh.

Industrial method of preparing ambrial (bicyclohomofarnesal).
Masl. - zhir. prom. 27 no.12:31-32 D '61. (MIRA 14:12)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteticheskikh i natural'nykh dushistykh veshchestv (for Sibirtseva, Kustova).
 2. Moskovskaya Kosmeticheskaya fabrika (for Kogelman, Makanovitskaya).
- (Farnesal)

DOTSENKO, P.Ya.; TISHKOVA, V.S.; RYZHKOVA, Ye.A.; SIBIRTSEVA, V.Ye.;
LESHCHINER, A.S.; KUSTOVA, S.D.

Improved method for obtaining rose and azalea absolute. Masl.-
zhir. prom. 29 no.5:43-44 My '63. (MIRA 16:7)

1. Sovkhoz-zavod "Elit" (for Dotsenko, Tishkova, Ryzhkova).
2. Vsesoyuznyy nauchno-issledovatel'skiy institut sinteti-
cheskikh i natural'nykh dushistykh veshchestv (for Sibirtseva,
Leshchiner, Kustova).
(Essences and essential oils)

AVAKOVA, I.S.; KUSTOVA, S.D.; TITOVA, N.B.

Composition of the hydrogen-containing fraction of low menthol
peppermint oil. Trudy VNIISNDV no.6:125-127 '63. (MIRA 17:4)

AVAKOVA, L.B.; KUSTOVA, S.D.; RUDOL'FI, T.A.; SEVERTSEV, V.A.; TITOVA, N.B.;
CHERKAYEV, V.G.; SHCHEDRINA, M.M.

Increasing the menthol content of low menthol peppermint oil.
Trudy VNIISNDV no.6:164-166 '63. (MIRA 17:4)

KUSTOVA, T.I.

Volumetric study of landslides in a region of the Odessa coast.
Geol. zhur. 23 no.5:72-77 '63. (MIRA 16:12)

1. Luganskiy gornometallurgicheskiy institut.

KUSTOVA, V.

To all parts of the world. Vnesh. torg. 41 no.9:18 '61.
(MIRA 14:8)

(Moscow--Textile industry)
(Russia--Commerce)

VOSTRIKOVA, A.M.; SAKHAROVA, V.V.. Prinimali uchastiye: FISHKO, P.Ye.;
YEFIMOVA, N.M.; BABURSKAYA, Z.T.; POZDNYAKOVA, K.I.; SHCHEGLOVA,
K.D.; KUSTOVA, V.T.; POD"YACHIKH, P.G., red.; STRONGIN, V.L.,
red.; PYATAKOVA, N.D., tekhn.red.

[Public health in the U.S.S.R.; compendium of statistics] Zdravo-
okhranenie v SSSR; statisticheskii sbornik. Moskva, Gosstatizdat
TsSU SSSR, 1960. 271 p. (MIRA 13:8)

1. Russia (1923- U.S.S.R.) TSentral'noye statisticheskoye upravle-
niye. 2. Otdel statistiki naseleniya i zdravookhraneniya TSentral'nogo
statisticheskogo upravleniya SSSR (for all except Strongin, Pyatakova).
3. Chlen Kollegii TSentral'nogo statisticheskogo upravleniya SSSR (for
Pod"yachikh).

(PUBLIC HEALTH--STATISTICS)

TSYBUL'SKIY, Vladimir Vasil'yevich; KUSTOVA, Ye., red.; RUDINA, G.,
tekhn.red.

[P.A.Chikhachev, an outstanding explorer of the Altai]

P.A.Chikhachev - vydalushchiisja issledovatel' Altaia.

Kemerovo, Kemerovskoe knizhnoe izd-vo, 1959. 133 p.

(MIRA 13:2)

(Chikhachev, Petr Aleksandrovich, 1808-1890)

KUSTOVA, Ye.A.

Rise of the Soviet public health organization and the role of
A.N. Sysin. Zdravookhranenie 2 no.6:9-13 N-D '59. (MIRA 13:6)

1. Iz Instituta organizatsii zdravookhraneniya i istorii meditsiny
im. N.A. Semashko (direktor - dotsent Ye.D. Ashurkov).
(PUBLIC HEALTH) (SYSIN, ALEKSEI NIKOLAEVICH, 1879-)

KUSTOVA, Ye.A. (Moskva)

Problems of prophylaxis at the Seventh All-Russian Congress of Health
Departments. Sov.zdrav. 19 no.5:9-13 '60. (MIRA 13:9)

1. Iz Instituta organizatsii zdravookhraneniya i istorii meditsiny
imeni N.A. Semashko (dir. Ye.D. Ashurkov).
(MEDICINE, PREVENTIVE)

KUSTOVA, Ye.A.

A.N. Sysin. Oig.1 san. 25 no.1:53-56 Ja '60.

(MIRA 13:5)

1. In Instituta organisatsii sdravookhraneniya i istorii meditsiny
imeni N.A. Semashko.

(BIOGRAPHIES)

(SANITATION)

KUSTOVA, Ye.A.

Fourth All-Russian Congress of Bacteriologists and Epidemiologists.
Zdrav. Bel. 7 no. 2:60-61 F '61. (MIRA 14:2)

1. Iz Instituta organizatsii zdravookhraneniya i istorii meditsiny
im. N.A. Semashko (direktor Ye.D. Ashurkov).
(BACTERIOLOGY—CONGRESSES) (EPIDEMIOLOGY—CONGRESSES)

KUSTOVA, Ye.A.

Role of the White Russian Sanitary Organization in building up
sanitation in our country. Zdrav. Bel. 7 no.10:76-78 0 '61.

(MIRA 14:11)

1. Iz Instituta organizatsii zdravookhraneniya i istorii meditsiny
imeni N.A.Semashko (ispolnyayushchiy obyazannosti direktora
instituta A.B.Shevelev).

(SANITATION)

KUSTOVA, Ye.A.

Problem of training and postgraduate education of sanitary personnel and activities of the Scientific Medical Council of the People's Commissariat of Public Health of the R.S.F.S.R. (1918-1932). Gig. i san. 26 no.3:50-54 Mr '61. (MIRA 14:7)

1. Iz Instituta organizatsii zdravookhraneniya i istorii meditsiny imeni N.A.Semashko.

(MEDICINE)

VISHNEVSKAYA, Iraida Ivanovna; SOKOLOV, Aleksandr Aleksandrovich;
KUSTOVA, Ye. A., red.; PRONINA, N.D., tekhn. red.

[Medical care for the rural population at the Kalinin
Province Hospital] Meditsinskoe obsluzhivanie sel'skogo
naseleniia Kalininskoi oblastnoi bol'nitsy. Moskva, Med-
giz, 1962. 106 p. (MIRA 16:10)

(KALININ PROVINCE--HOSPITAL CARE)

(KALININ PROVINCE--MEDICINE, RURAL)

ZYKOV, Il'ya Vasil'yevich; KUSTOVA, Ye.G., red.; RUDINA, G.V., tekhn.
red.

[Nature calendar of Kemerovo Province]Kalendar' prirody Kemerovskoi oblasti. Kemerovo, Kemerovskoe knizhnoe izd-vo, 1960.
126 p. (MIRA 15:11)

(Kemerovo Province--Nature study)

1. 07721-07 EWT(m)/EWP(t)/ETI IJP(c) JD/HW/WB
ACC NR: AP6034190 SOURCE CODE: UR/0369/66/002/005/0515/0517

AUTHOR: Novokreshchenov, P. D.; Kustova, Yu. Ye. 15
13

ORG: Pedagogical Institute, Voronezh (Pedagogicheskiy institut) B

TITLE: Investigation of the effect of low-melting metal coatings on nickel recrystallized at various temperatures 18

SOURCE: Fiziko-khimicheskaya mekhanika materialov, v. 2, no. 5, 1966, 515-517

TOPIC TAGS: nickel, bismuth, ~~cadmium~~, ~~zinc~~, ~~nickel structure~~, ~~coated~~, ~~internal friction~~, *metal coating*

ABSTRACT: The effect of low-melting metal coatings on the structure and internal friction of nickel has been investigated. ⁶NP-2 nickel specimens 1 mm in diameter annealed at 650, 750 or 850C to obtain a respective grain size of 0.03, 0.20 and 0.30 mm were coated with bismuth, ⁷cadmium or zinc by dipping. The thickness of the coating did not exceed 30-35 μ . The tensile strength of specimens annealed at 650, 750 and 850C was 42.2, 37.1, and 39.2 kg/mm², respectively, and the elongation was 26.6, 20.4, and 20.7%. All three metals were found to have a significant effect on the internal friction of nickel (see Fig. 1).

Card 1/2

L 07795-67
ACC NR: AP6034190

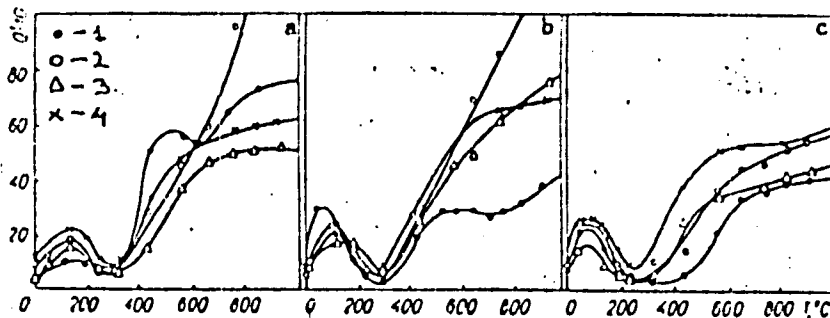


Fig. 1. Internal friction of nickel annealed at 650 (a), 750 (b), and 850C (c) and uncoated (1) or coated with bismuth (2), cadmium (3), or zinc (4).

The effect was especially pronounced in nickel annealed at 750C, in which the grain size amounts to 20% of the specimen diameter. The penetration of surface-active metals into nickel proceeds primarily along grain boundaries and structure defects. Annealing at 850C forms a structure with a small number of grain-boundary defects and dislocations. As a result, the increase of internal friction is insignificant. Orig. art. has: 2 figures.

SUB CODE: 11, 14/ SUBM DATE: 15Mar66/ ORIG REF: 012/ OTH REF: 001
ATD PRESS: 5101

Cord 2/2 1.5

Dec 1957 16 22 1957
MATVEYEVA, M.H.; SMIRNOVA, Z.M.; KUSTOVA, Z.M.; VASIL'YEVA, M.V.; GEL'CHINSKIY, B.Ya.; OZEROV, D.K.; MANUKHOV, A.V.; GOL'TSMAN, F.M.; PETRASHEN', O.I., red.; VOLKHOVER, R.B., tekhn. red.

[Papers on the quantitative study of seismic wave dynamic] Materialy kolichestvennogo izucheniya dinamiki seismicheskikh voln. Pod. rukovodstvom i red. O.I.Petrashen'. [Leningrad] Izd-vo Leningr. univ. Vol. 1. 1957. 420 p. Vo.2. 1957. 152 p. (MIRA 11:2)

1. Akademiya nauk SSSR. Matematicheskiy institut, Leningradskoye otdeleniye.
(Seismometry)

CHEREPENIN, L.A., inzhener; KUSTOVSKIY, B.B., inzhener.

Quality of coke. Lit. proizv. no.2:29 F '57.
(Coke)

(MLRA 10:4)

KOLODTSEV, Kh.I., kand.fiz.-matem.nauk; BABIY, V.I., kand.tekhn.nauk
KUSTOVSKIY, S.P., inzh.

VII gas generator for gas-turbine systems. Teploenergetika
8 no.4:44-48 Ap '61. (MIRA 14:8)

1. Vsesoyuznyy teplotekhnicheskii institut.
(Gas turbines)

KUSTRA, T.; MISIK, A.; SZABO, L.

Experiences with trypsin therapy of chronic maxillary sinusitis. Cesk. otolar. 7 no.5:279-283 Oct 58.

1. Otolaryng. odd. OUNZ Martin, prednosta MUDr. Teodor Kustra.
(SINUSITIS, ther.
trypsin (Cz))
(TRYPSIN, ther. use,
sinusitis (Cz))

KUSTRA, Teodor; MISIK, Adam

Preliminary reports on the surgical treatment of the antro-alveolar fistulas using Kustra's method. Otolaryng. Pol. 19 no.3:345-351 '65.

1. Z Oddziału Otolaryngologicznego OUM w Martinie (Kierownik: dr. med. T. Kustra).

KUSTRA, T.

Some anatomical data on the maxillary sinus obtained with the use of craniometry and their value in surgery. Bratisl. lek. listy 45 no.5:274-281 15 S '65.

1. Otolaryngologicke oddeleni Obvodniho ustavu narodniho zdravi v Martine (veduci primar MDr. T. Kustra).

AKACIC, B.; KUSTRAK, D.; POJE, B.

Separation of furocoumarine derivatives in Ammi maius L.
Bul sc Youg 7 no.1/2:56 F-Apr '62.

1. Zavod za farmakognoziju Farmaceutskog fakulteta,
Zagreb.

*

ARACIO, Branko, (prof. in Zagreb); MESTRE, Carlos (prof. in Zagreb).

Influence of the development stage of cornelian flower heads on
the content of their essential oil. *Pharmazie* 41 (Zagreb Supplement
1986) no. 5:114-115.

1. Institute of Pharmacology of the Pharmaceutical Faculty, University
of Zagreb, Zagreb.

Clinical, bacteriological and serological studies on chronic atrophic fetid nasopharyngitis. Arch. intern. ther. exp. 12 no. 4:483-490 '64

1. Department of Bacteriology, Institute of Immunology and Experimental Therapy, Polish Academy of Sciences, Wrocław;
The Laryngological Clinic, School of Medicine, Wrocław,
and Department of Microbiology, School of Medicine, Wrocław.

KOSSOWSKI, Stanisław; RECZEK, Halina; KUSTRZYCKA, Helena

Stewart's tumors in the oral cavity. Otolaryngologia 15 no.3:327-331
'61.

1. Z Kliniki Laryngologicznej AM we Wrocławiu Kierownik: prof. dr
W. Jankowski.

(MOUTH neoplasms)

IWANKIEWICZ, Stanisław; KAWECKI, Karol; KUSTRZYCKA, Helena

Pseudotuberculomas of the larynx and trachea. Otolaryng.
pol. 17 no.1:45-53 '63.

1. Z Kliniki Otolaryngologicznej AM we Wrocławiu Kierownik:
prof. dr W. Jankowski i z Zakładu Anatomii Patologicznej AM
we Wrocławiu Kierownik: prof. dr Z. Albert.

(TUBERCULOSIS, LARYNGEAL) (TUBERCULOMA)
(TRACHEA) (DIAGNOSIS, DIFFERENTIAL)

BROSS, Wiktor; KOWARZYKOWIE, Hugon; KOWARZYKOWIE, Zofia; KUSTRZYCKI, Anatol

Instructive vectocardiograms in 2 patients after commissurotomy. Polski tygod. lek. 12 no.51:1964-1967 23 Dec 57.

1. (Z II Kliniki Chirurgicznej i Ośrodka Kardiologicznego Wrocławskiej Akademii Medycznej). Wrocław, ul. Marcinkowskiego 1, Zakł. Patol. Og. i Dosw. A.M.

(COMMISSUROTOMY

postop. vectorcardiograms (Pol))

(VECTORCARDIOGRAPHY

after commissurotomy (Pol))

KUSTRZYCKI, Anatol; KASPRZAKOWA, Janina; RZUCIDLO, Zbigniew

Persistent common atrioventricular canal in a 21 year-old woman. Polski tygod. lek. 13 no.9:311-314 3 Mar 58.

1. (Z II Kliniki Chirurgicznej A.M. we Wroclawiu, kier. prof. dr med. W. Bross, z Zakladu Interny I.D. i S.K.L. Oddzialu we Wroclawiu na bazie Szpitala Wojewodzkiego; kier. doc. dr med. J. Kaniak i Zakladu Anatomii Patologicznej A.M. we Wroclawiu; kier. prof. dr med. Z. Albert) Wroclaw 12, ul. Olszewskiego 94/6.

(CARDIAC SEPTUM, abnorm.

persistent common atrioventricular canal in woman (Pol))

BROSS,Wiktor; KOCZOROWSKI,Stefan; ARONSKI,Antoni; KUSTRZYCKI,Anatol

Open-heart surgery of Fallot's tetralogy in hypothermia.
Polski tygod lek 15 no.11:381-388 14 Mr '60.

1. Z II Kliniki Chirurgicznej A.M. we Wroclawiu; kierownik:
prof. dr Wiktor Bross.

(TETRALOGY OF FALLOT surg.)
(HYPOTHERMIA INDUCED)

BROSS, Wiktor; KOCZCROWSKI, Stefan; KUSTRZYCKI, Anatol; ARONSKI, Antoni

Open heart valvulotomy in isolated stenosis of the pulmonary artery.
Polski przegl.chir. 32 no.8/9:863-869 '60.

1. Z II Kliniki Chirurgicznej Akademii Medycznej we Wroclawiu
Dyrektor: prof. dr W.Bross.
(PULMONARY STENOSIS surg)

BROSS, Wiktor; KOWARZYK, Hugon; KOWARZYKOWA, Zofia; KUSTRZYCKI, Anatol;
HOMIK, J.

Typical QRS vectorcardiograms during cardiac load in interauricular
septal defects. Pol. tyg. lek. 16 no.51:1963-1966 18 D '61.

1. Z II Kliniki Chirurgicznej, Katedry Patologii Ogolnej i Doswiadczal-
nej, Osrodka Kardiologicznego przy PSK 1 A. M. we Wroclawiu)

(VECTORCARDIOGRAPHY) (HEART SEPTUM abnormal)

KUSTRZYCKI, A.

Cardiac catheterization in the diagnosis of defects in the interauricular septum. Kardiologia Polska. 5 no.1:5-12 '62.

1. Z II Kliniki Chirurgicznej AM we Wrocławiu Kierownik: prof. dr
W. Bross. (HEART SEPTUM diag) (HEART CATHETERIZATION)

BROSS, W.; KOSTRZYCKI, A.; DUC, L.; KOLTOWSKI, R.; BROSS, T.

Electrocardiographic studies in cases of defects in the interauricular septum. Kardiol. Pol. 5 no.1:13-18 '62.

1. Z II Kliniki Chirurgicznej Kierownik: prof. dr W. Bross i z
Kliniki Nefrologicznej AM we Wrocławiu Kierownik: prof. dr. Z-Wiktor.
(HEART SEPTUM abnormal) (ELECTROCARDIOGRAPHY)

ALBERT, Zgymunt; KUSTRZYCKI, Anatol; RZUCIDLO, Zbigniew

Angiography of afferent and efferent blood vessels in transplantable chrysoidin hepatoma in mice. Actamed. pol. 4 no.1:21-31 '63.

1. Institute of Immunology and Experimental Therapy Polish Academy of Sciences, Wroclaw, Director: Prof. Dr. S. Slopek Department of Experimental Oncology, Wroclaw, Director: Prof. Dr. Z. Albert
II Surgical Clinic, Medical Academy, Wroclaw, Director: Prof. Dr. W. Bross Department of Pathological Anatomy, Medical Academy, Wroclaw, Director: Prof. Dr. Z. Albert.
(HEPATOMA) (ANGIOGRAPHY)

BROSS, W.; KOCZOROWSKI, S.; WREZLEWICZ, W.; KANIOWSKI, T.; ROGALSKI, E.;
KUSTRZYCKI, A.; MASLANKA, P.

Apropos of the treatment and diagnosis of bronchial adenoma.
Pol. przegl. radiol 27 no.5:381-395 S-O '63.

1. Z II Kliniki Chirurgicznej Akademii Medycznej we Wrocławiu
(Kierownik: prof. dr med. W. Bross); 2. Kliniki Radiologicznej
Akademii Medycznej we Wrocławiu (Kierownik: doc. dr med. Z.
Kubrakiewicz).

BROSS, Wiktor; WREZLEWICZ, Wladyslaw; CISEK, Tomasz; KANIOWSKI,
Tadeusz; KUSTRZYCKI, Anatol

Pulmonary hypoplasia in a 12-year-old child. Gruzlica 31 no.7:
817-822 '63.

1. Z II Kliniki Chirurgicznej AM we Wroclawiu.
(LUNG DISEASES) (ABNORMALITIES)

BROSS, Wiktor; KOCZOROWSKI, Stefan; ROGALSKI, Eugeniusz;
KUSTRZYCKI, Anatol; WREZLEWICZ, Wladyslaw

Results of the surgical treatment of bronchial adenoma. Pol.
przegl. chir. 35 no.10/11:1125-1127 '63.

1. Z II Kliniki Chirurgicznej AM we Wroclawiu Kierownik:
prof. dr W. Bross.

(BRONCHIAL NEOPLASMS) (ADENOMA)
(SURGERY, OPERATIVE)

KUSTRZYCKI, Anatol; MARCINIAK, Roman

A case of complete transposition of the pulmonary vein and persistent upper portal vein. Five-year follow-up. *Pol. tyg. lek.* 19 no.40 1536-1538 5 1964.

1. Z II Kliniki Chirurgicznej Akademii Medycznej we Wrocławiu (Kierownik: prof. dr. med. Wiktor Brass) i z Kliniki Radiologicznej Akademii Medycznej we Wrocławiu (Kierownik: doc. dr. med. Zbigniew Fabrakiewicz).

1. KONRAD YG, H., ...

Primary pulmonary hypertension, ... 193-194.

1. A. J. KLEINK, ...
prof. ...
Medicine ...
...
...

Country : Yugoslavia
Category= :

H-22

Ass. Jour. :

39961

Author : Arsenijevic, M., Jancic, M., Trifunovic, D., and

Institut. : Kustudic, D.

Title : Not given

Effect of Microadditions of Products from the Dry
Distillation of Bituminous Coal on the Bulk Density

Orig. Pub. : of a Number of Yugoslav and Other Coals
Tehnika, 13, No 6, [?] (1958); Hem Ind, 12, No 6,
89-96 (1958)

Abstract : The authors have studied the conditions under which
the wetting of Yugoslav and imported coals (C) with
microadditions of products obtained by the dry dis-
tillation of bituminous coal leads to a greater com-
paction of the charge and raises the bulk density.
The effect of the moisture content of the C on the
above process is noted. The following increases
were obtained in the bulk density of a number of C
containing 8-9% H₂O on wetting with the substances
indicated: kerosene, 11-15%; light oil (O), 9-13%;
heavy O, 6-8%; anthracene O, 2-6%. The presence of
ash because of the hydrophilic character of the

Card: 1/2

H-86

Country : Yugoslavia
Category :

H-22

39961

Abs. Jour. :

Author :
Institut. :
Title :

Orig Pub. :

Abstract : latter lowers the effectiveness of the treatment.
For increased coke oven capacity, the authors recom-
mend the wetting of a number of C with microaddi-
tions of light, heavy, and anthracene O.
Ya. Satunovskiy

Card: 2/2

MINKOVSKIY, D.I., kand.tekhn.nauk; KUSTYLO, V.K., inzh.

Third Interuniversity Conference on Dielectrics and Semiconductors.
Izv.vys.ucheb.zav.; energ. 3 no.10:118 0 '60. (MIRA 13:11)
(Dielectrics) (Semiconductors)

CZECHOSLOVAKIA

KUSTYR, I.; BOZDECH, V.; Veterinary Research Center (Veterinarni Vyzkumne Stredisko), Prague - Motol; Laboratory of Serology, Neurological Clinic of the Member of Academy Henner (Serologicka Laborator Neurologicke Kliniky Akad. Hennera), Prague.

"Preparation and Titration of a Hemolytic Amboceptor of a High Titre."

Prague, Veterinarni Medicina, Vol 11, No 5, May 66, pp 329 - 336

Abstract [Authors' English summary modified]: Hyperimmunization process was investigated on the model action of rabbit hemolysin on sheep erythrocytes; the influence of the time factor, method of application, season of the year, and of sex were studied. A method is described by which a hemolytic amboceptor for the complement fixation with a titre from 2 to 10 times higher than commercially available amboceptors can be prepared. The immunization scheme which lasts for 28 days includes 7 intradermal, and 4 intravenous applications of the antigen. 5 figures, 3 Tables, 12 Western, 4 Czech references. (Manuscript received 30 Dec 65).

1/1

APPROVED FOR RELEASE: 03/13/2001

CIA-RDP86-00513R000927910008

PANOV, Dmitriy Yur'yevich; RUSCHENKO, V. G.; 1964; 104 p. red.

[Slide rule] Schetnaya lineika. Izd. 17., 18. Moskva, Izd-vo Nauka, 1964. 107 p. (NDA 17:18)

ARKHIPOV, Vadim Matveyevich; BUSYGIN, Yevgeniy Prokof'yevich;
VOROB'YEV, N.I., prof., red.; KUSURGASHEV, I.M., red.

[Antarctica and its exploration by Soviet scientists] Antark-
tida i ee issledovanie sovetskimi uchenyimi. Kazan' Izd-vo Ka-
zanskogo univ., 1959. 49 p. (MIRA 15:3)
(Antarctic regions—Soviet exploration)

MAL'KOVSKIY, Georgiy Pavlovich; SHCHEDROV, V.S., prof., red.; KUSURGASHEV,
I.M., red.; SEMENOV, Yu.P., tekhn.red.

[Mass and energy in modern physics] O masse i energii v sovremennoi fizike. Kazan', Izd-vo Kazanskogo univ., 1961. 178 p.
(MIRA 15:2)

(Mass (Physics)) (Force and energy)

ГРОМАКОВ, С.Д.; КУСУРГАСЬЕВ, И.М., ред.; СЕМЕНОВ, Ю.П., техн. ред.

[Some laws governing equilibrium systems] О некоторых закономерностях равновесных систем. Kazan', Izd-vo Kazanskogo univ., 1961. 600 p. (MIRA 15:6)

(Systems (Chemistry))
(Phase rule and equilibrium)

VERKHUNOV, Vitaliy Mikhaylovich; PREDVODITELEV, A.S., prof., red.;
KUSURGASHEV, I.M., red.; SEMENOV, Yu.P., tekhn. red.;
ANTRALOVA, L.I., tekhn. red.

[History of physics at Kazan University] Istoriia fiziki v
Kazanskom universitete. Kazan', 1963. 358 p. (MIRA 16:8)

1. Chlen-korrespondent AN SSSR (for Predvoditelev).
(Kazan--Physics--Research)

FEDOTOV, Yekaterina Dmitriyevna; GUMEROVA, R.I., eds., red.;
KUSURGASHEV, I.M., red.

[Seasonal freezing of the soil in the Tatar A.S.S.R. and
adjacent areas in the middle Volga Valley] Sezonnoe pro-
merzanie pochvy v Tatarskoi ASSR i izmeshnykh oblastiakh
Srednego Povolzh'ia. Kazan', Izd-vo Kazanskogo univ., 1965.
198 p. (P'IRA 18:12)

AL'TSHULER, S.A., prof., red.; KUSURGASHEV, I.M., red.

[Paramagnetic resonance] Paramagnitnyi rezonans; sbornik
statei. Kazan', Izd-vo Kazanskogo univ., 1964. 161 p.
(MIRA 18:12)

LEVITMAN, V.S., KUSURINA, N.N.; ROSIKOVA, T.N.

[Program for calculating many-storied multispans frames
using the BESM-2M digital computer; program SIDR-3] Program-
na rascheta mnogobezhnykh mnogoproletnykh ram na elektronnoi
maschine BESM-2M; programma SIDR-3. Moskva, 1974. 234 p.
(Series 11-49) (MIRA 18:8)

1. Moscow. Gosudarstvennyy institut tipovogo i eksperimental'nogo
proyektirovaniya i tekhnicheskikh issledovaniy.

KUSY, Jaroslav, inz.

Conference on cybernetics in Budapest. Poz stavby 12 no.9: 394-395
'64.

PROSEK, Mojmir, inz.; KUSY, Jaroslav, inz.

Methods of linear programming and their use in building industry planning. Poz stavby 11 no. 12: 634-636 '63.

1. Ustav normovaní ve stavebnictví, Praha (for Prosek).
2. Ministerstvo stavebnictví, Praha (for Kusy).

U. S. ARCHIVES, 1937.

Use of linear programming methods in planning building material production. For activity 12 no.11:464-466 '64.

1. Ministry of Building, Prague.

KUSY, S.; PRONORSKY, V

Preparation of the job classification catalogue in the framework of the Association of Flour Mills and Bakeries. p. 19

TECHNIKA VYKUPU, MLYNÁŘSTVÍ A PEKÁŘSTVÍ. (Ministerstvo potravinářského průmyslu a výkupu zemědělských výrobků a Sdružení mlýnů a pekáren)
Praha, Czechoslovakia, Vol. 5, no. 4, Apr. 1959

Monthly List of East European Accessions (MEAL), Vol. 9, no. 1, Jan, 1960

Uncl.

KUSY, V.

Sina, J.; Kusy, V. Experiences with the analysis of ethyl fluids. p. 162.
~~CHEMICKY PRUMYSL.~~ Praha. Vol. 5, no. 4, Apr. 1955.

SO: Monthly List of the East European Accession, (EEAL), LC. Vol. 4,
no. 10, Oct. 1955. Uncl.

L 31758-66

ACC NR: AP6021639

SOURCE CODE: CZ/0008/65/000/008/0978/0984

AUTHOR: Kusy, Vladimir; Svarc, Frantisek; Cabal, Jiri

ORG: Chemical Enterprises of Czechoslovak-Soviet Friendship (Chemické závody Československo-sovětského přátelství); Research Institute for Chemical Utilization of Coal, Záluží (Výzkumný ústav pro chemické využití uhlí)

TITLE: Preparative gas chromatograph with a large injection and with automatic collection of fractions

SOURCE: Chemické listy, no. 8, 1965, 978-984

TOPIC TAGS: gas chromatography, IR spectroscopy, chemical laboratory apparatus

ABSTRACT: The authors designed an automatic preparative apparatus suitable for a sample injection of 25 ml; they based their suggestion on experience gained in operating a small apparatus. The design allows automatic extraction of fractions, and is independent of time. The design and operating methods are described. Temperatures up to 200°C may be maintained in the apparatus; it operates in conjunction with analytical chromatography and infrared spectroscopy. Orig. art. has: 6 figures and 2 tables. [JPRS]

SUB CODE: 07 / SUBM DATE: 19Mar64 / ORIG REF: 005 / OTH REF: 007

Card 1/1 90

84.57

Z/008/60/054/011/003/005

E112/E453

11.1210

AUTHOR: Kusý, Vladimír

TITLE: Vapour-Phase Partition Chromatography of Mixtures of
Hydrogen, Paraffins and Olefins, Using the Micro-Flare
Detector

PERIODICAL: Chemické listy, 1960, Vol.54, No.11, pp.1168-1172

TEXT: An account is given of a further modification of the micro-flare detection method in vapour-phase partition chromatography developed originally by R.P.W.Scott and adapted later by M.M.Wirth (Vapour Phase Chromatography, ed. by D.H.Desty, Butterworth Scientific Publications, London, 1957). Wirth established that using hydrogen as the carrier gas - as recommended by Scott - it was not possible to obtain a straight base line because of the high diffusivity of hydrogen, and used nitrogen instead as a carrier, the column effluent being injected into the constant hydrogen stream and burnt at the tip of the capillary. The present author has now adopted in broad outlines the principle of Wirth with only minor modifications and the present paper gives constructional and operating details of the method when applied to the partition of mixtures of hydrogen, the lower paraffins and
Card 1/5